

ABSTRACT OF THE DISCLOSURE

In one aspect of the present invention, a method for preparing a nucleic acid sample for hybridization to a nucleic acid array is presented. This disclosed method has the steps of providing a nucleic acid sample, the sample having mRNA, amplifying the mRNA to produce cRNA and fragmenting the cRNA with an RNase enzyme to produce fragments. In another aspect of the present invention, a method is provided for detecting hybridization of a nucleic acid sample to a nucleic acid array. In yet another aspect of the present invention, a method is presented for preparing cRNA for hybridization to an oligonucleotide probe array. In another aspect of the present invention, a method is provided for labeling an RNA sample, the method comprising providing an RNA sample, fragmenting the sample with an RNase enzyme to produce fragments and end-labeling the fragments with a detectable label. In an other aspect of the present invention, a method to detect an RNA molecule in an RNA sample is provided in which the end-labeled RNA fragments are hybridized a nucleic acid array.